

PTI
JUL 1 2003

FIG. 1

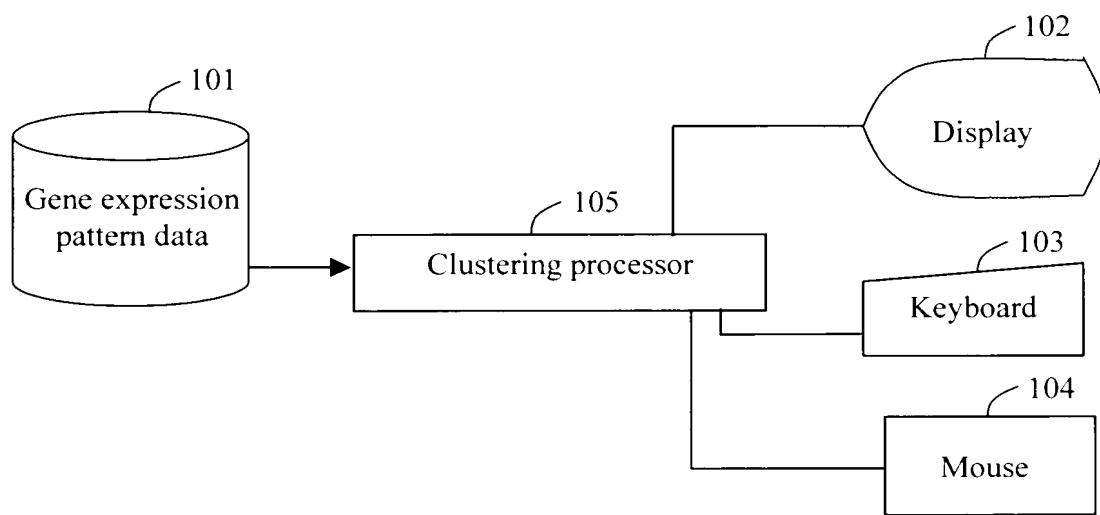


FIG. 2

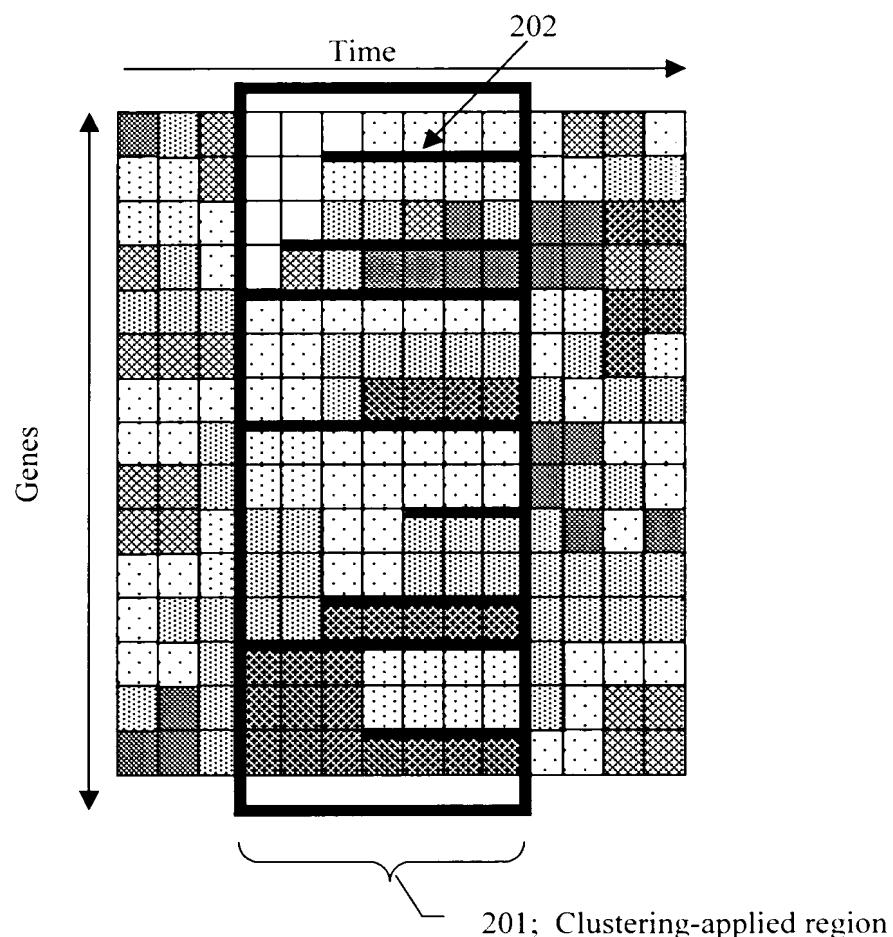


FIG.3

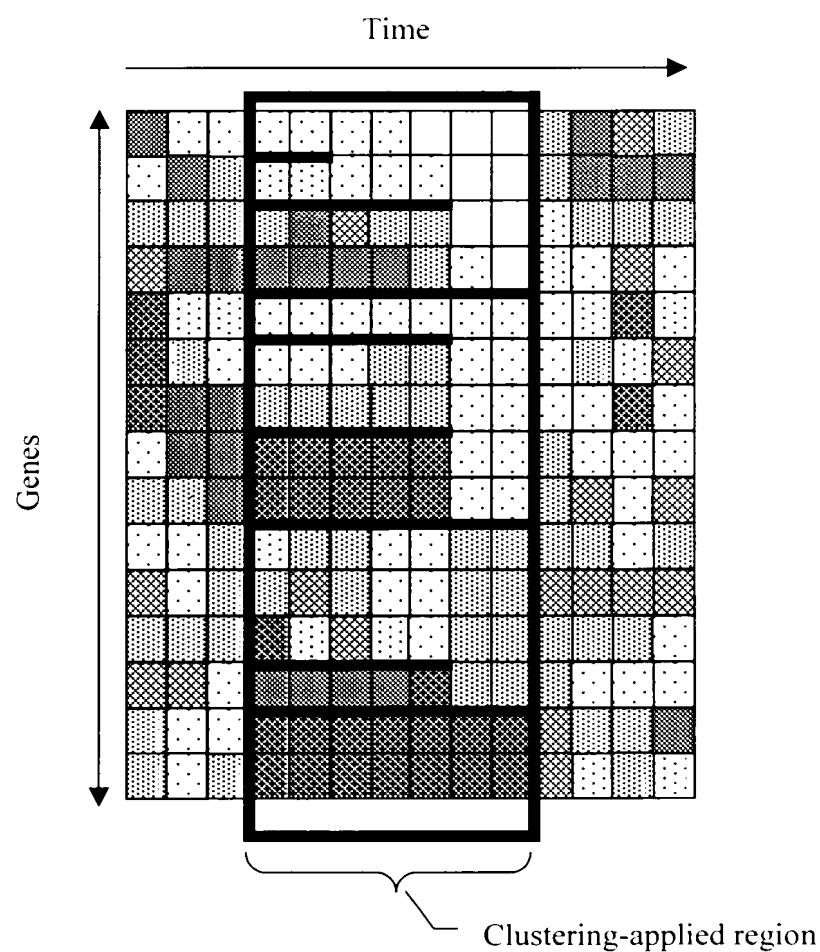


FIG. 4

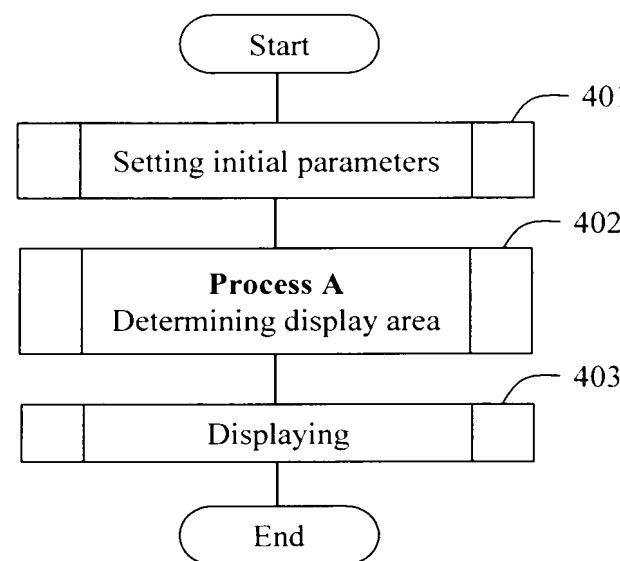


FIG. 5

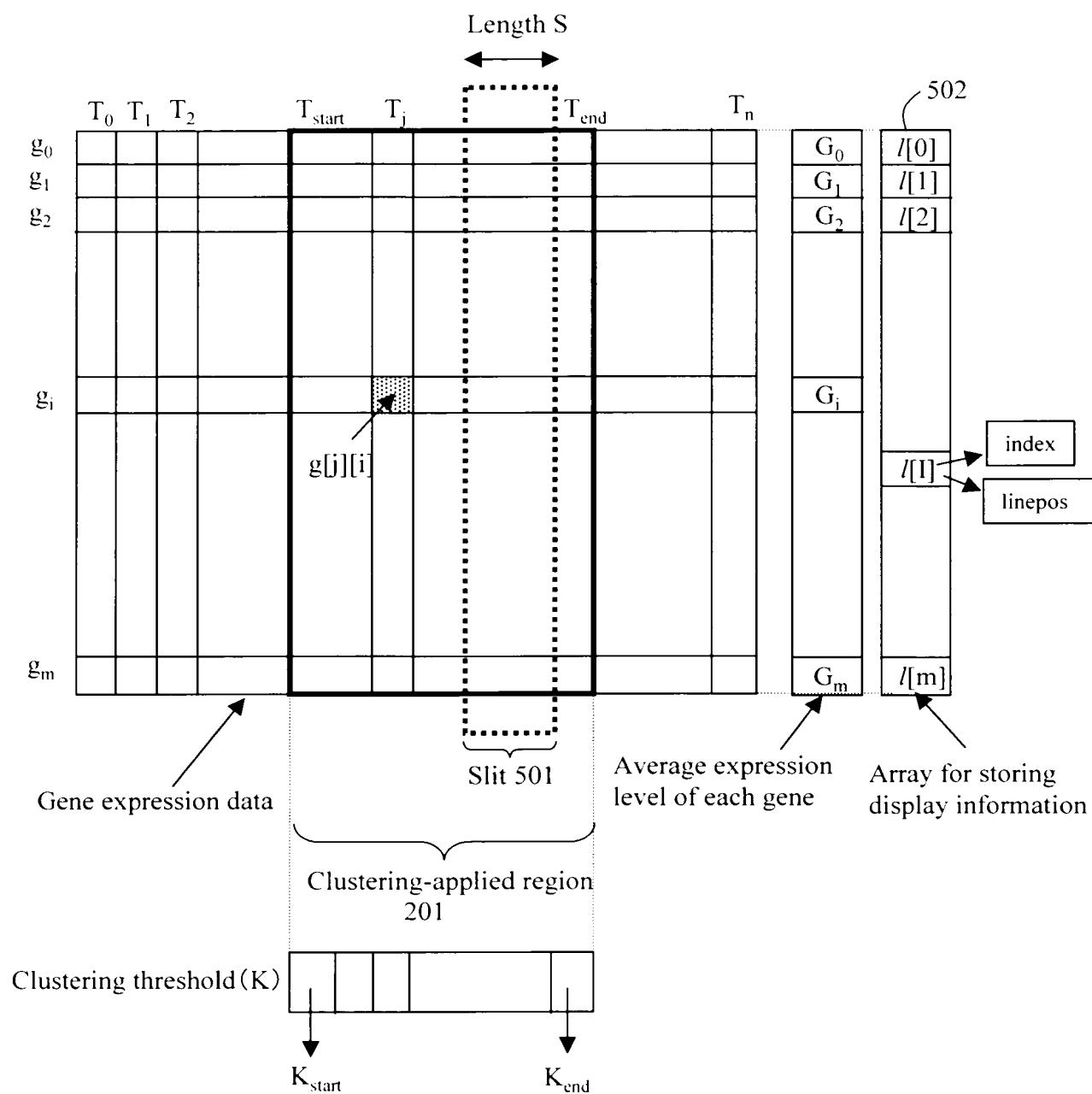


FIG. 6

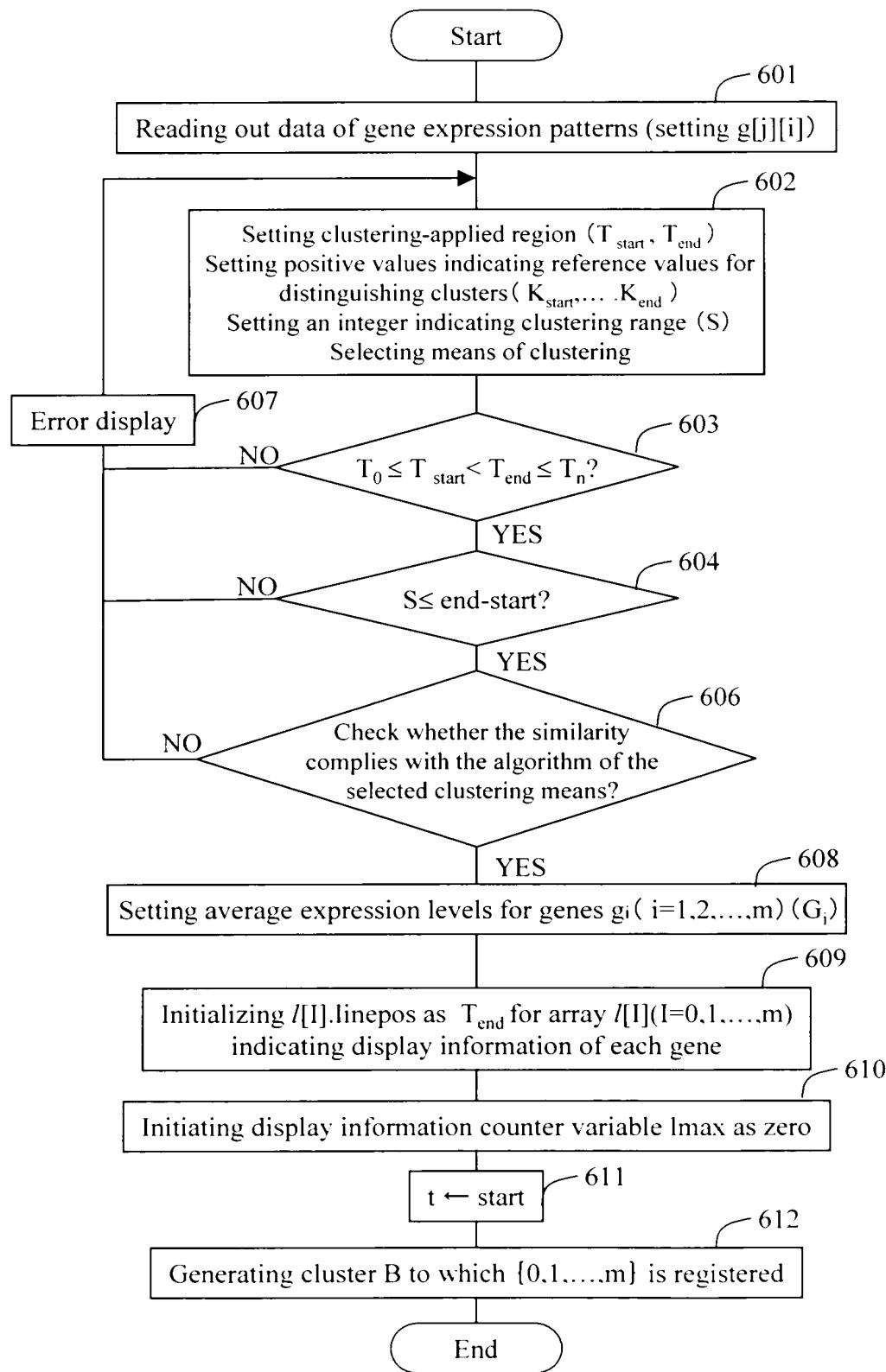


FIG. 7

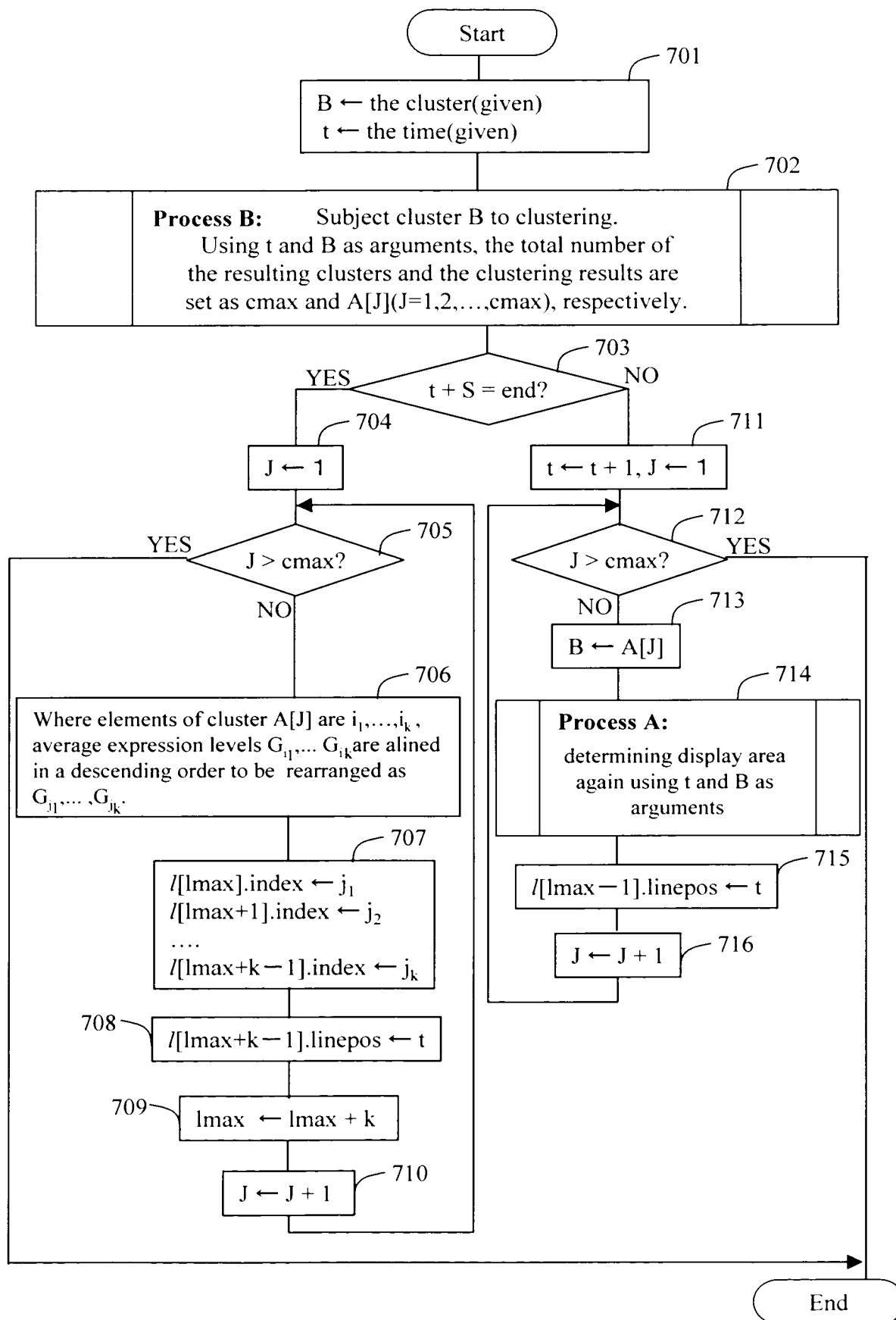


FIG. 8

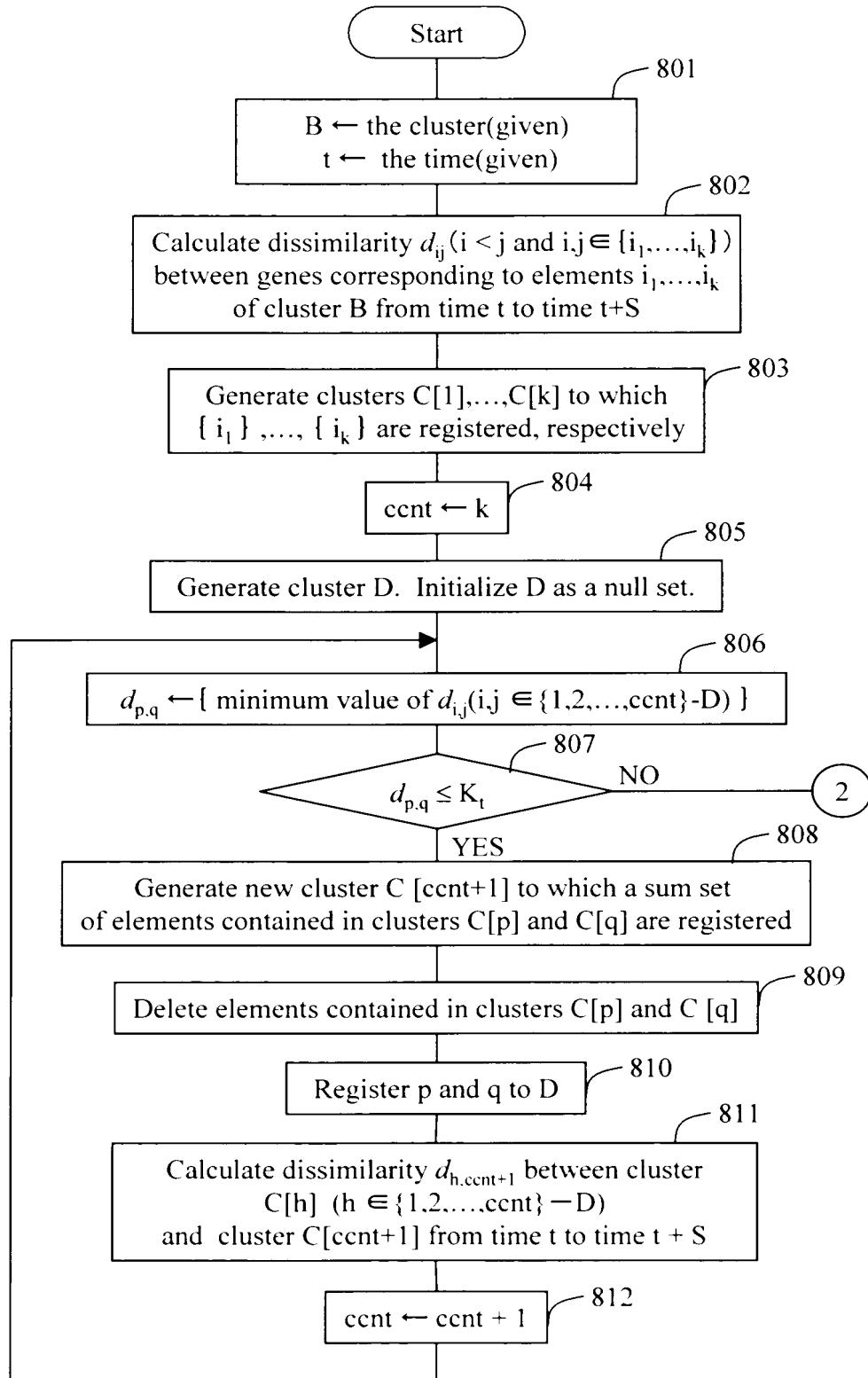


FIG. 9

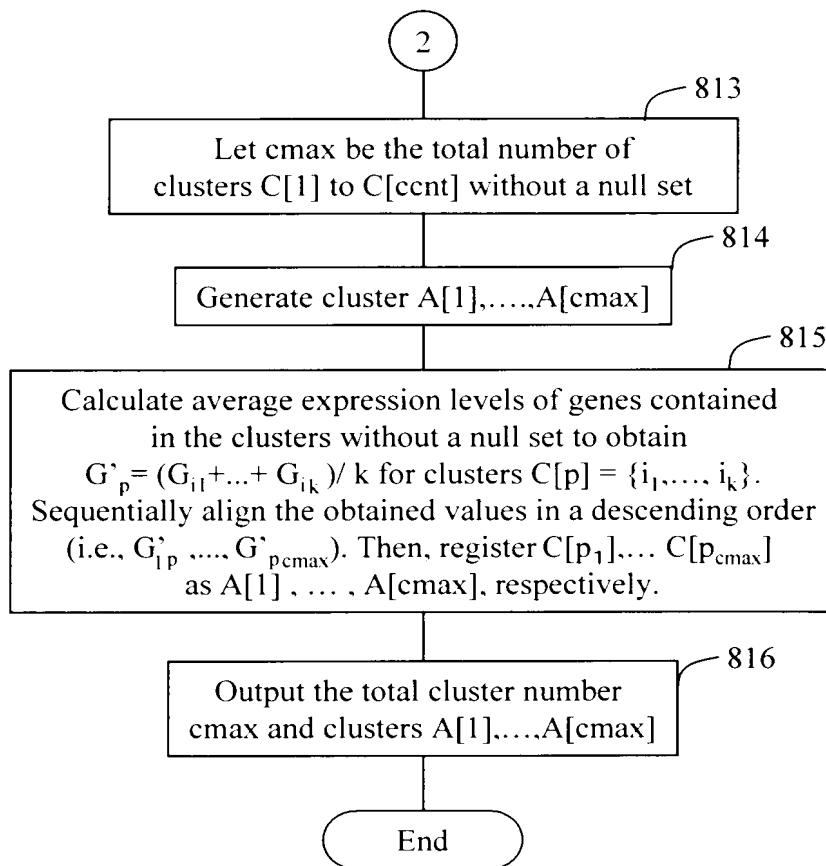


FIG. 10

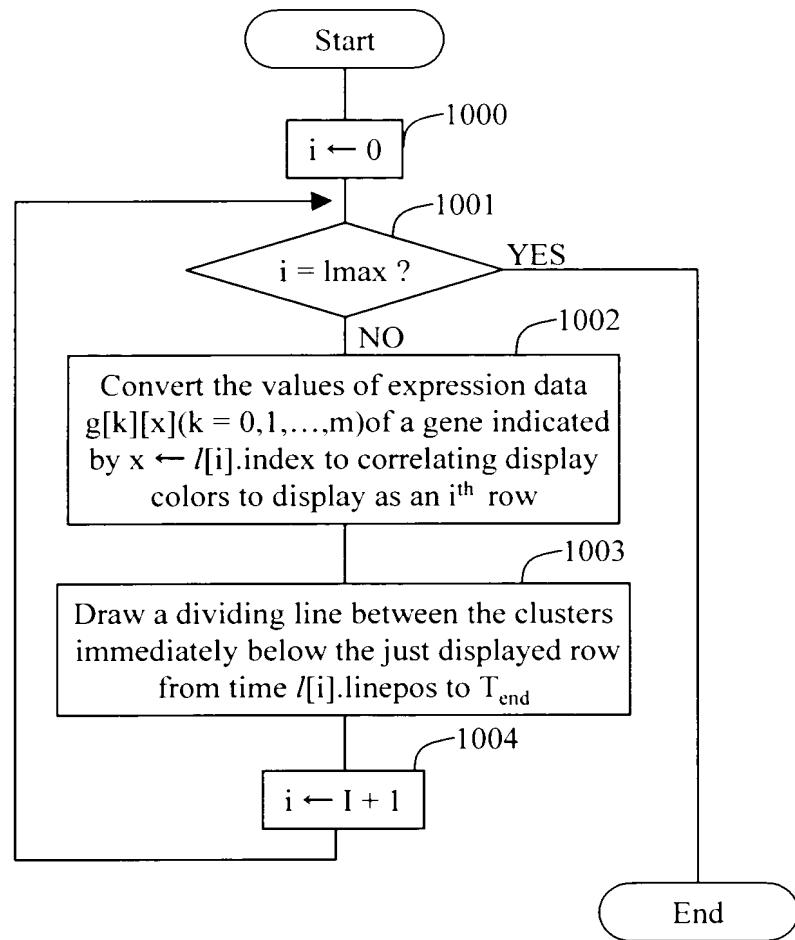


FIG.11

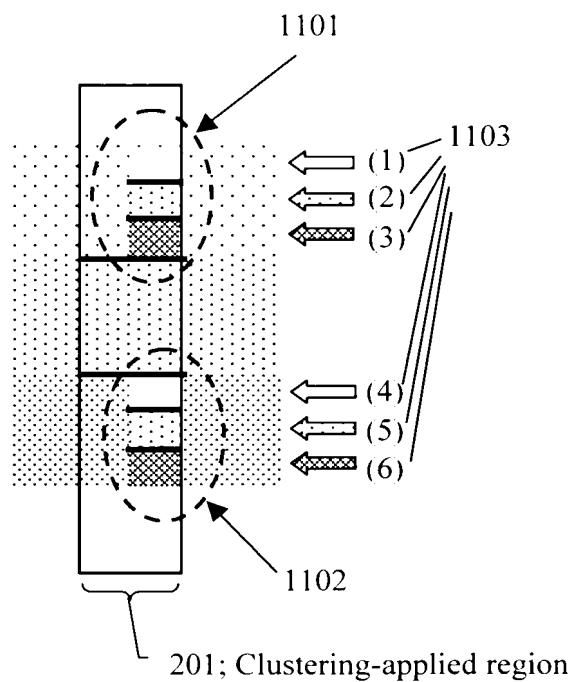


FIG.12

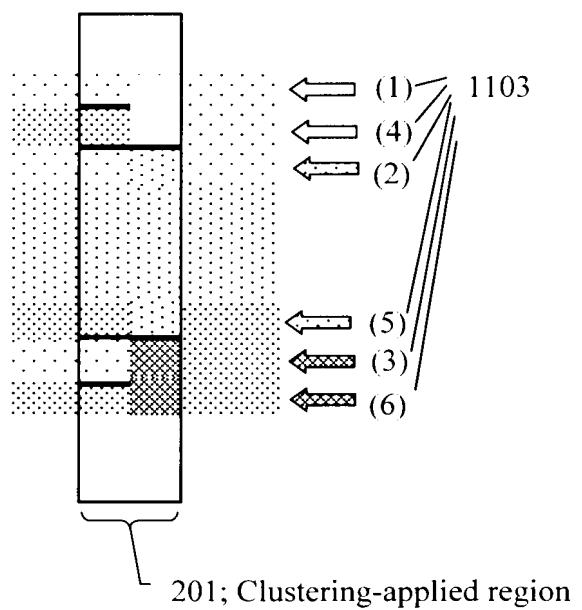


FIG.13

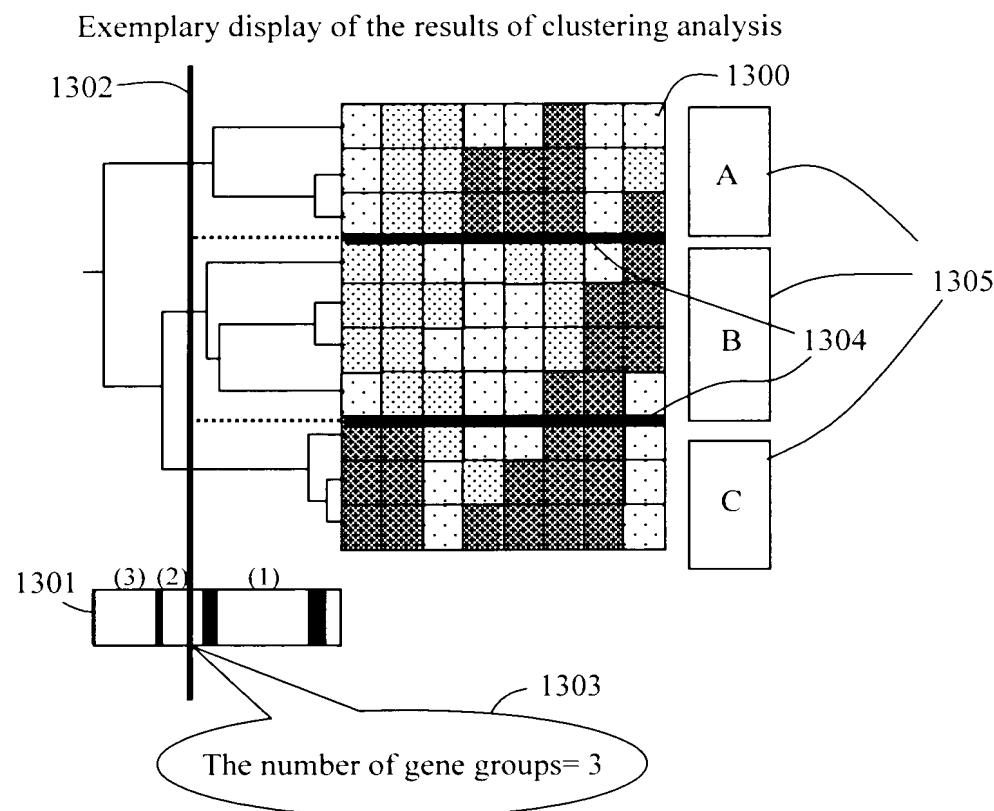


FIG.14

Example of gene expression pattern data

1401

Gene ID (geneID)	Experiment cases									n
	1	2	3	4	5	6	
1	0	1	2	0	3	2	0			
2	1	2	0	0	2	2	1			
:										
m	0	4	3	6	5	4	0			

1402
m number of vector data

FIG.15

Example of cluster structures

cluster

Members	Value
type	leaf
left	
right	
distance	
geneID	17
level	0

cluster

Members	Value
type	node
left	●
right	●
distance	91
geneID	
level	5

1501
1502cluster L
cluster R

FIG.16

Exemplary structure of cluster tree

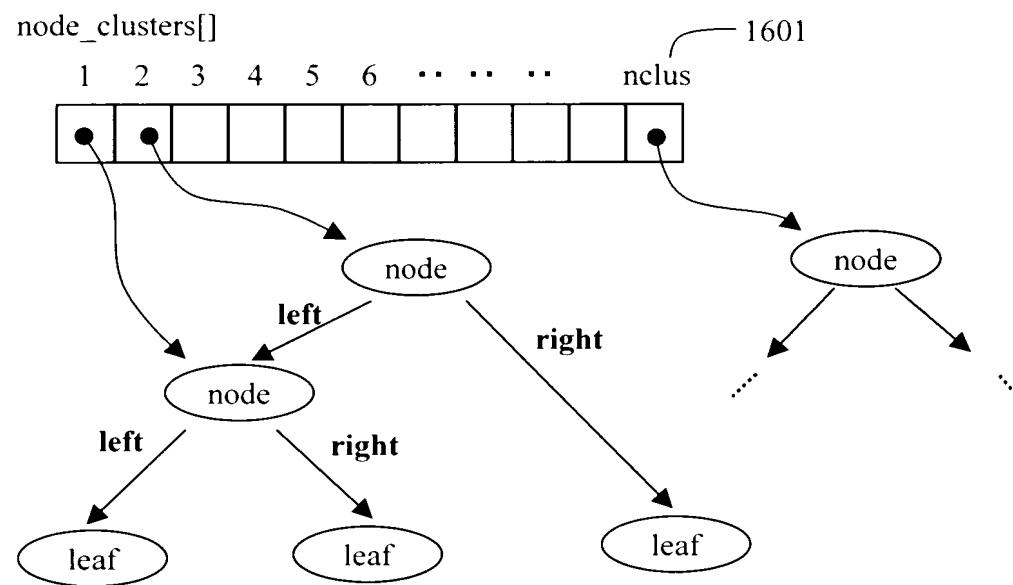
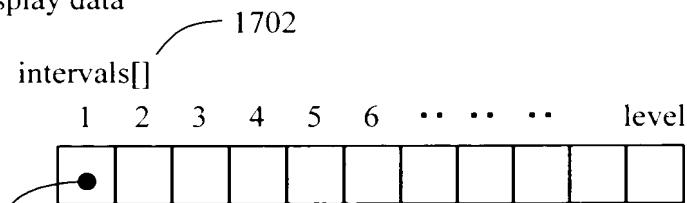


FIG.17

Exemplary display data



Interval structure

1701

Members	Value
num_clust	517
min_dist	11
max_dist	28
borders	●

→ {3, 16, 31, 56, 127, ...}

disp_leaf_clusters[]

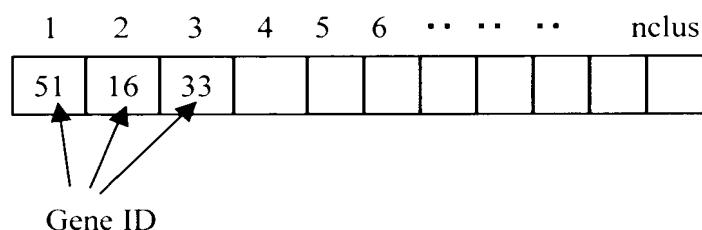


FIG.18

Flowchart of general process

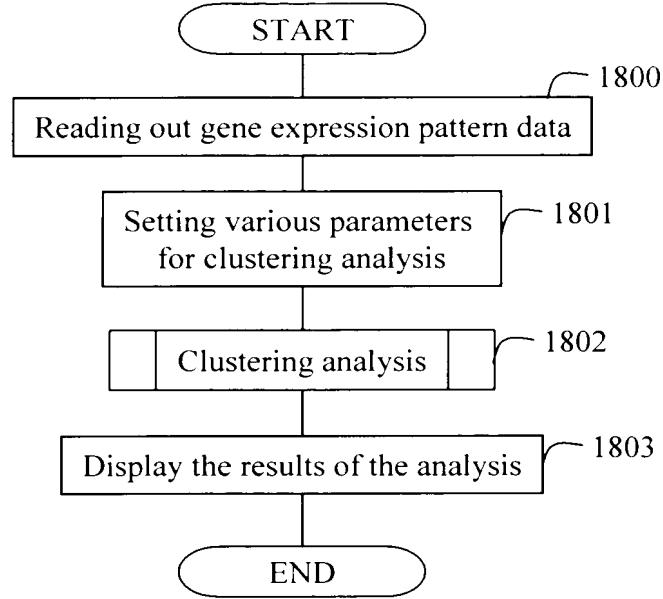


FIG.19

Detailed flowchart of clustering analysis (1: Generating cluster tree)

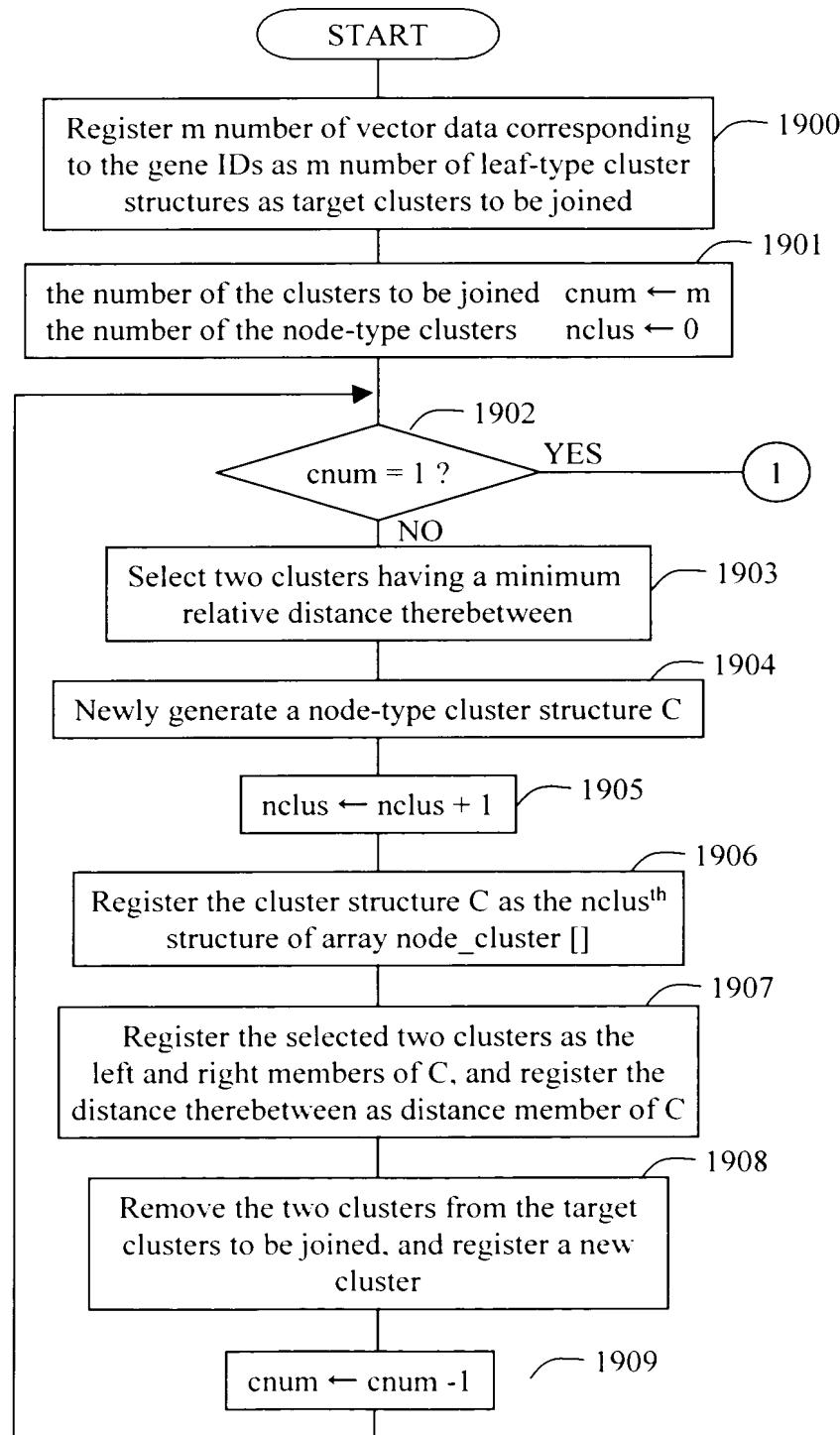


FIG.20

Detailed flowchart of clustering analysis (2: Setting cluster levels)

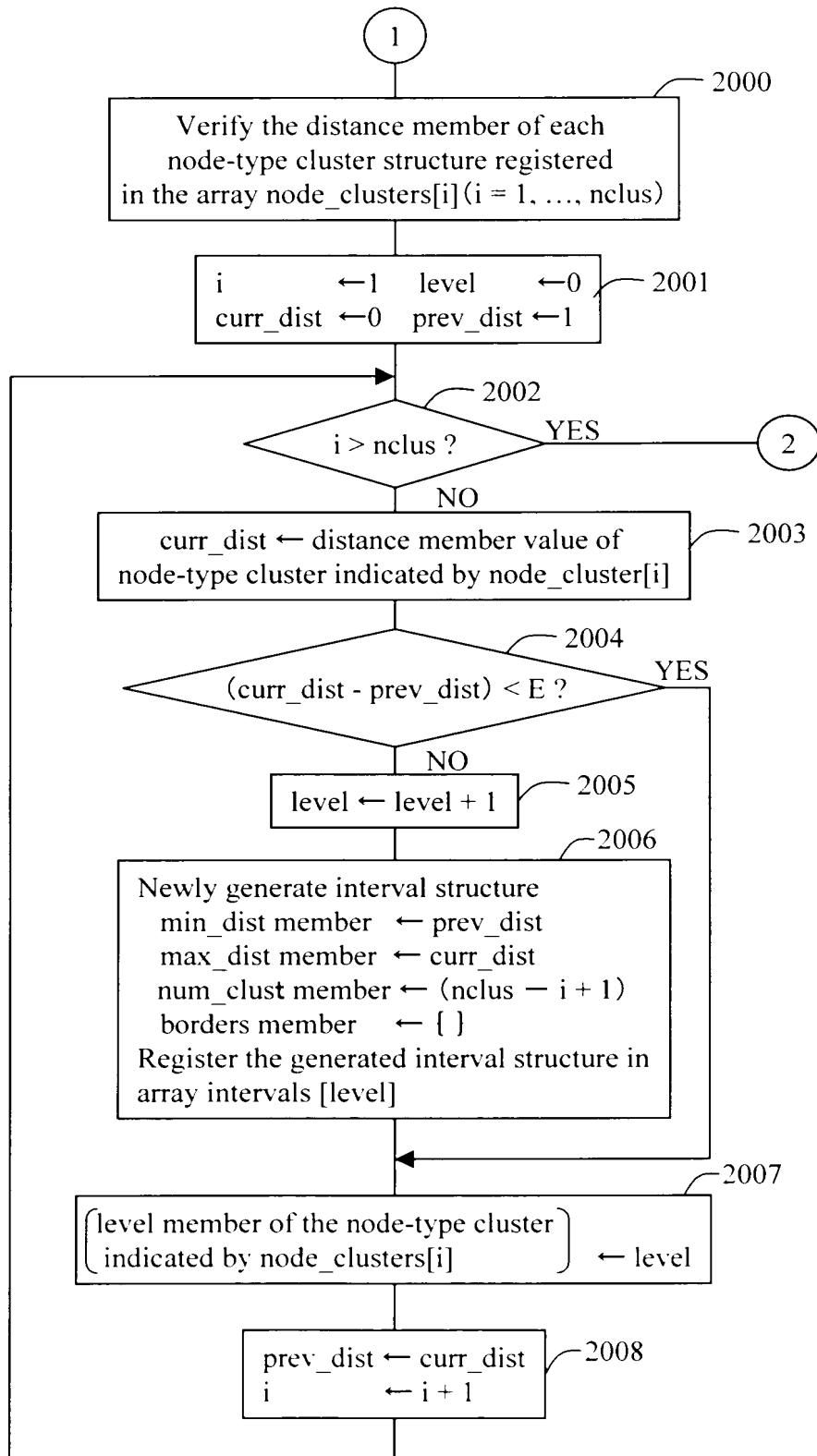


FIG.21

Detailed flowchart of clustering analysis (3: Generating display data)

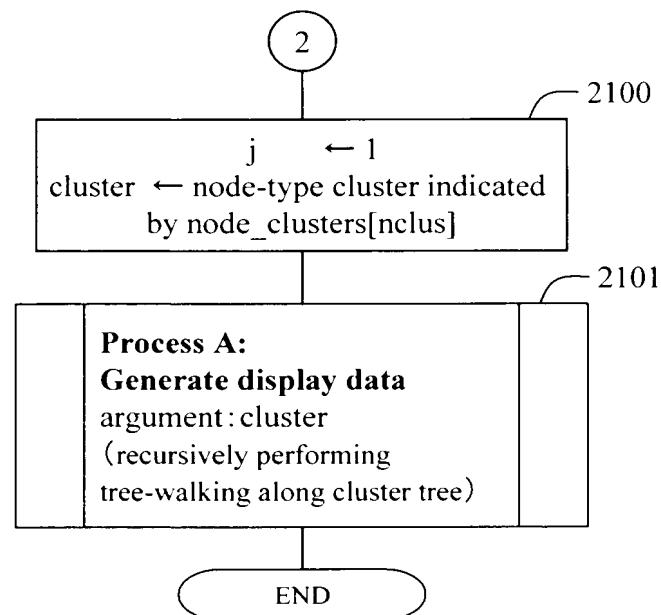


FIG.22

Flowchart of generating display data (Process A)

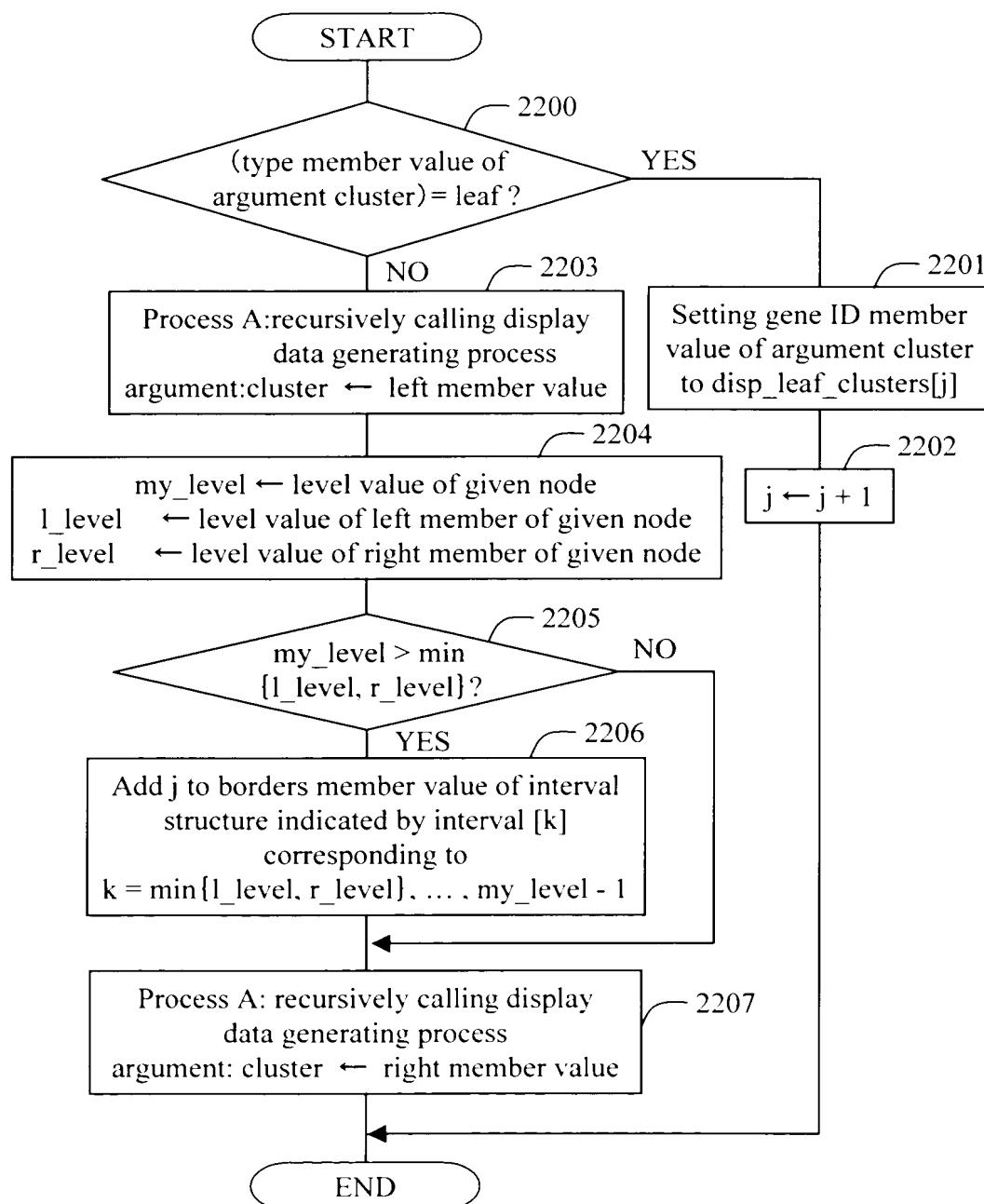


FIG.23

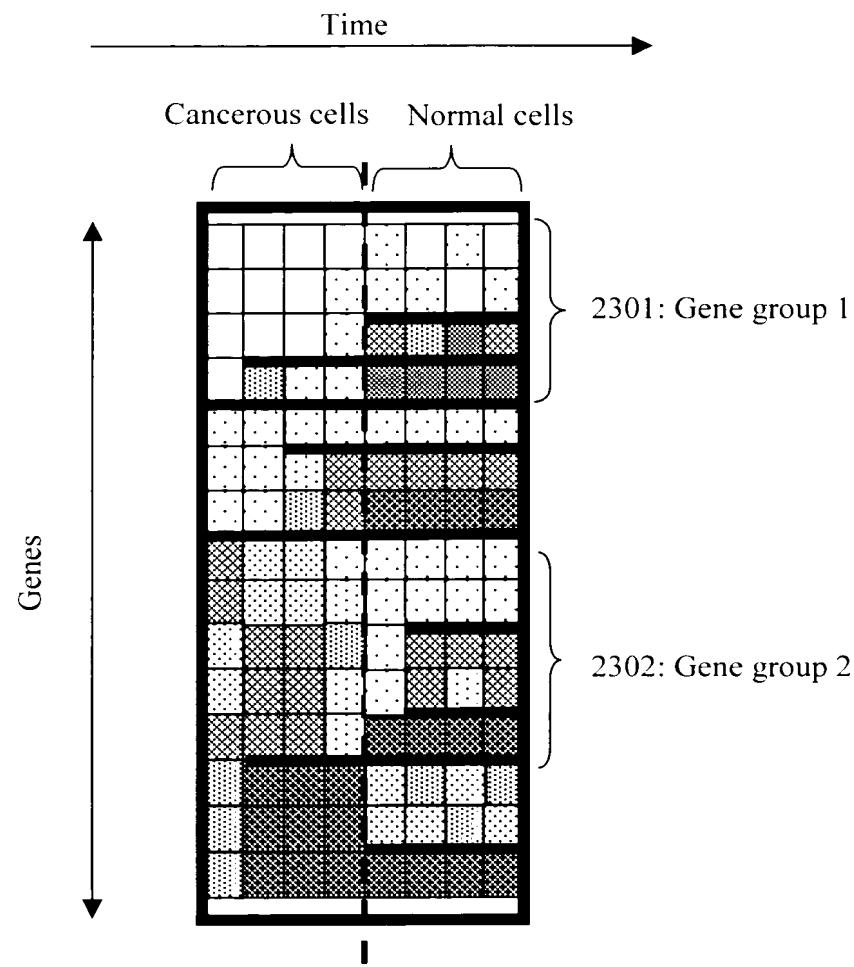
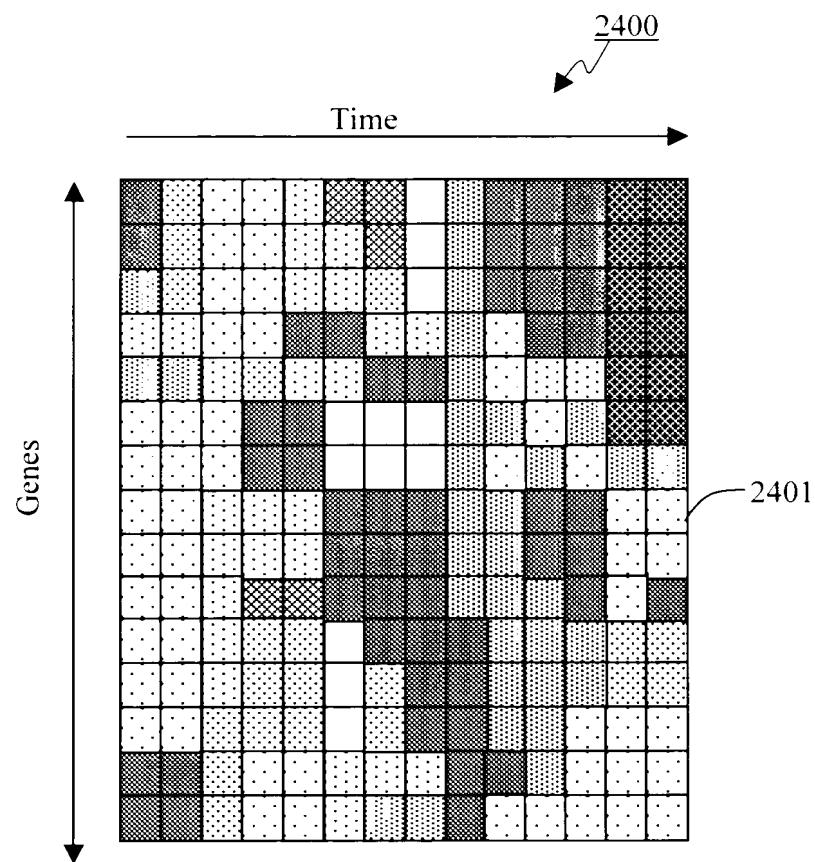


FIG.24



FEB 22 2003
2500
2501
FIG.25

Exemplary display of standard clustering analysis

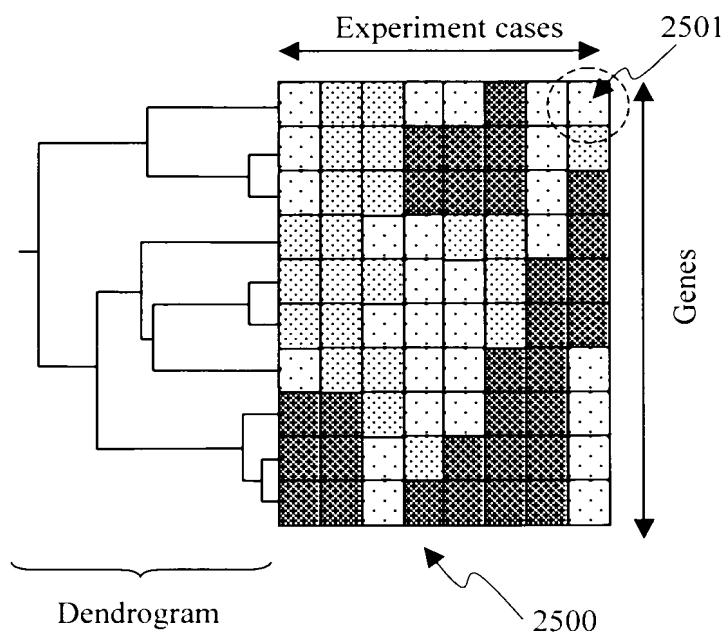


FIG.26

